

II. CLAIM AMENDMENTS

1. (Currently amended) A method for transmitting a location-based message within a communication system, wherein for the message at least one recipient is defined, and the message is transmitted from a wireless communication device of a sender to a wireless communication device of one or more said recipients via the communication system, and the method comprises at least the following steps:

- a positioning step comprising using satellite positioning for determining the position of the sender's wireless communication device,
- a range definition step for defining the message transmission range based on the current position of the sender's wireless communication device determined by using satellite positioning,
- a validity period definition step for defining a validity period for the message,
- a step of sending the message from the wireless communication device of the sender to the communication system,
- a detection step for detecting whether the recipient of the message is located within the message transmission range comprising using satellite positioning to determine the location of the recipient, and
- a presentation step, wherein via the communication system, the message is presented in the wireless communication device of the recipient, in case said recipient of the message is located within the message transmission range.

2. (Original) The method according to claim 1, wherein a limited group of recipients is defined as the recipient of the message.

3. (Original) The method according to claim 1, wherein anyone located within the message transmission range is defined as the recipient of the message.

4. (Cancelled)

5. (Previously presented) A method according to claim 1, in which said communication system is a wireless communication system provided with at least one data base into which the messages to be transmitted are stored at a storage step.

6. (Original) The method according to claim 1, wherein the location-based message is stored into the recipient's wireless communication device to be presented in said presentation step.

7. (Original) The method according to claim 1, in which the sender's wireless communication device comprises a mobile communication device of a mobile communication system, and in which mobile communication system at least one base station is used in order to arrange communication between the wireless communication device and the mobile communication system, and in said positioning step the sender is positioned on the basis of said base station.

8. (Original) The method according to claim 7, wherein the message transmission range is defined to be that area of the base station within which the wireless communication device of the sender communicates.

9. (Original) The method according to claim 7, wherein the message transmission area is defined to be the area of all those base stations transmitting a signal that can be received by the sender's wireless communication device.

10. (Original) The method according to claim 1, wherein the positioning of the sender is performed by using a satellite positioning system.

11. (Original) The method according to claim 1, in which a communication connection is set up from the sender's wireless communication device to a wireless local area network, and the sender is positioned by using the wireless local area network.

12. (Original) The method according to claim 1, in which the sender's wireless communication device comprises wireless local communication means, and the sender is positioned by using said wireless local communication means.

13. (Original) The method according to claim 1, wherein a certain geographical area is defined as the message transmission range.

14. (Original) The method according to claim 1, wherein said detection step is repeated at intervals.

15. (Previously presented) The method according to claim 1, wherein said detection phase is performed upon setting up a communication connection between the recipient's wireless communication device and a base station of the communication system.

16. (Currently amended) A system for transmitting a location-based message, which system comprises:

means for determining the recipient of the message, and means for transmitting the message from a sender's wireless communication device to a wireless communication device of one or more said recipients via the system, wherein the system further comprises at least:

satellite positioning means for determining the position of the sender's wireless communication device,

range definition means for defining the message transmission range based on the current position of the sender's wireless communication device,

means for defining a validity period for the message,

detection means for detecting whether the recipient of the message is located within the message transmission range comprising satellite positioning means, and

presentation means for presenting the message in the recipient's wireless communication device, in case said recipient of the message is located within the message transmission range.

17. (Original) The system according to claim 16, which further comprises means for detecting the validity time of the message.

18. (Original) The system according to claim 16 comprising at least one mobile communication system comprising at least one base station for setting up a communication connection between the wireless communication device and the mobile communication system, and the system further comprises means for positioning the sender on the basis of at least one said base station.

19. (Original) The system according to claim 16 comprising a satellite positioning system, and means for positioning the sender by means of said satellite positioning system.

20. (Original) The system according to claim 16 comprising a wireless local area network, and means for positioning the sender by means of said wireless local area network.

21. (Original) The system according to claim 16 comprising wireless local communication means, and means for positioning the sender by means of said wireless local communication means.

22. (Currently amended) A message service center comprising;

means for transferring a message transmitted from a sender's wireless communication device to a wireless communication device of one or more recipients, the sender's wireless communication device being operative to transmit the

message to the service center, wherein the message service center comprises at least:

satellite positioning means for determining the position of the sender's wireless communication device,

means for determining the message transmission range from the message to be transmitted defined on the basis of the position of the sender's wireless communication device,

means for detecting a validity period for the message,

detection means for detecting whether the recipient of the message is located within the message transmission range, the detecting means comprising satellite positioning means, and

presentation means for presenting the message in the recipient's wireless communication device, in case said recipient of the message is located within the message transmission range.

23. (Currently amended) A wireless communication device, comprising means for determining ~~the~~ a recipient, a satellite positioning receiver configured to determine the position of the wireless communication device, ~~and~~ means for transmitting a location-based message from a wireless communication device to a communication system to be transmitted to a wireless communication device of one or more ~~said~~ recipients, ~~and the wireless communication device further comprises at least range definition means for defining the message transmission range defined based on the position of the sender's wireless communication device, and means for defining a validity period for the message.~~

24. (Currently amended) A wireless communication device, comprising:

~~means~~ a receiver for receiving from a sender's wireless communication device, via a communication system, a location-based message in which the recipient of the message has been defined, wherein the wireless communication device further comprises:

~~storage means~~ a memory for storing said message,

~~detection means for detecting~~ a detecting element comprising a satellite positioning receiver for determining the position of the wireless communication device, said detecting element being configured to detect whether the recipient of the message is located within the message transmission range defined on the basis of the position of the sender's wireless communication device,

~~means for examining~~ an examining element configured to examine a validity period for the message, and

an information presentation means ~~for presenting element configured to present~~ the message in the wireless communication device, in case said recipient of the message is located within the message transmission range.

25. (New) A system for transmitting a location-based message, comprising:

an input element configured to determine the recipient of a message,

a transmitter configured to transmit the message from a sender's wireless communication device to a wireless

communication device of one or more recipients via the system, wherein the system further comprises at least:

- a first satellite positioning receiver configured to determine the position of the sender's wireless communication device,
- a range definition element configured to define the message transmission range based on the current position of the sender's wireless communication device by using the position determined by the first satellite positioning element,
- a defining element configured to define a validity period for the message,
- a detecting element, configured to detect whether the recipient of the message is located within the message transmission range, comprising a second satellite positioning receiver for determining the position of the recipient's wireless communication device, and
- a presentation element configured to present the message in the recipient's wireless communication device, in case said recipient of the message is located within the message transmission range.

26. (New) A wireless communication device comprising:

- an input element configured to determine the recipient of a message,
- a transmitter configured to transmit the message from the wireless communication device to a wireless communication device of one or more recipients,
- a satellite positioning receiver configured to determine the position of the sender's wireless communication device,

- a range definition element configured to define the message transmission range based on the current position of the reader's wireless communication device by using the position determined by the first satellite positioning element, and
- a defining element configured to define a validity period for the message.